

**S4 Table.** Primers used for targeted deep sequencing. See text for details.

	Primer <sup>a</sup>	Name	Sequence (5'->3')	Position <sup>b</sup>	
				from	to
<b>Participant: 20225</b>					
<b>Region: <i>pol</i></b>					
	RT	20225GPR03	CCCTCCTATTTTTACTGTGACAAGG	2279	2303
	1 <sup>st</sup> round Fwd	20225GPF03	ACTGCACTGAAAGACAGGCTAAT	2063	2085
	1 <sup>st</sup> round Rev	20225GPR03	CCCTCCTATTTTTACTGTGACAAGG	2279	2303
	2 <sup>nd</sup> round Fwd	20225GPF02	GGGGAGGCCAGGAAAC	2115	2130
	2 <sup>nd</sup> round Rev	20225GPR02	TGCCAAAGAGTGATTTGAGG	2253	2272
<b>Region: V2</b>					
	RT	20225ER04	TATAGGAATTGGTTCAAAAGTGACC	6845	6869
	1 <sup>st</sup> round Fwd	20225EF04	CACACTAATGTTACCTACAATAACACCAT	6642	6670
	1 <sup>st</sup> round Rev	20225ER04	TATAGGAATTGGTTCAAAAGTGACC	6845	6869
	2 <sup>nd</sup> round Fwd	20225EF03	TCAATATGACCACAGAAATAAGAGATAGA	6700	6728
	2 <sup>nd</sup> round Rev	20225ER03	GGCTTGTGTTAAGGCTGAGG	6817	6836
<b>Region: <i>rev</i></b>					
	RT	20225REVR02	CCTGATTCTTCTAGGTATGTTGATAATAGCCC	8737	8768
	1 <sup>st</sup> round Fwd	20225REVF02	GCGGATTCTTAGCACTTGCC	8473	8492
	1 <sup>st</sup> round Rev	20225REVR02	CCTGATTCTTCTAGGTATGTTGATAATAGCCC	8737	8768
	2 <sup>nd</sup> round Fwd	20225REVF01	GGACTGTGGAACCTTCTGGGAC	8563	8583
	2 <sup>nd</sup> round Rev	20225REVR01	TGTCCAGCCAGCTACTACTATTGC	8679	8702
<b>Participant: 40100</b>					
<b>Region: <i>pol</i></b>					
	RT	40100POL04R	GTTCTTTCTGATGCTTTTTGTCTG	3199	3222

1 <sup>st</sup> round Fwd	40100POL03F	GTTATCTATCAATACATGGATGACTTGTATG	3084	3114
1 <sup>st</sup> round Rev	40100POL04R	GTTCTTTCTGATGCTTTTTGTCTG	3199	3222
2 <sup>nd</sup> round Fwd	40100POL01FA	TCAATACATGGATGACTTGTATGTAGG	3092	3118
2 <sup>nd</sup> round Rev	40100POL02RA	CTTTCTGATGCTTTTTGTCTGGTG	3196	3219

**Region: V5**

RT	40100V5_REVM3	ATTTCTCCAATTGTCTTTTATATTTCC	7641	7667
1 <sup>st</sup> round Fwd	40100V5_FWDM 3	GCAATGTATGCTCCTCCCATCA	7521	7542
1 <sup>st</sup> round Rev	40100V5_REVM3	ATTTCTCCAATTGTCTTTTATATTTCC	7641	7667
2 <sup>nd</sup> round Fwd	40100V5FWDA	ATGTATGCTCCTCCCATCAAGG	7524	7545
2 <sup>nd</sup> round Rev	40100V5REVA	TCTCCAATTGTCTTTTATATTTCTCC	7638	7664

**Region: gp41**

RT	40100GP41R02	CTCCCATGTTATAGCAAAGCTC	8782	8803
1 <sup>st</sup> round Fwd	40100GP41F02	GGACGCAGCAGTCTCCAG	8563	8580
1 <sup>st</sup> round Rev	40100GP41R02	CTCCCATGTTATAGCAAAGCTC	8782	8803
2 <sup>nd</sup> round Fwd	40100GP41F01A	GAAGGCCTCAAATATCTGGG	8595	8614
2 <sup>nd</sup> round Rev	40100GP41R01A	GATCTGATTCTTCTGGGTATGTGGAG	8745	8770

**Region: nef**

RT	40100NEF04R	TTAAAAAGAAGCTAAGATCAAAGCTC	9044	9070
1 <sup>st</sup> round Fwd	40100NEF02F	GATAAACATGGAGCAGTAACAAGTG	8908	8932
1 <sup>st</sup> round Rev	40100NEF04R	TTAAAAAGAAGCTAAGATCAAAGCTC	9044	9070
2 <sup>nd</sup> round Fwd	40100NEF01FA	ATGGAGCAGTAACAAGTGAAAATATG	8915	8940
2 <sup>nd</sup> round Rev	40100NEF03RA	AAAAGCTCCCTTATAAGTCATTGG	9028	9051

**Participant: 40061**

**Region: p2**

RT	40061P2R02	CAGTCTTTCATTTGATGTCCTTCCTTC	2040	2066
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1 <sup>st</sup> round Fwd	40061P2F02	TTGCTAGTCCAAAATGCCAATCC	1750	1772
1 <sup>st</sup> round Rev	40061P2R02	CAGTCTTTCATTTGATGTCCTTCCTTC	2040	2066
2 <sup>nd</sup> round Fwd	40061P2F01	CAAGGCCATTTTAAAGAGCATTAGG	1779	1802
2 <sup>nd</sup> round Rev	40061P2R01	ACATTTCCAACAACCCTTTTTTCCTAG	2012	2037

**Region: vif**

RT	40061VIFR02	TAACACTAGGCAGAGGTGGCTTTATCC	5513	5539
1 <sup>st</sup> round Fwd	40061VIFR02	GAAACTATAGCACACAAATAGATCCTGACC	5316	5344
1 <sup>st</sup> round Rev	40061VIFR02	TAACACTAGGCAGAGGTGGCTTTATCC	5513	5539
2 <sup>nd</sup> round Fwd	40061VIFR01	GACTGATTCATCTGCAATATTTTGACTG	5354	5381
2 <sup>nd</sup> round Rev	40061VIFR01	GGTGTGTTAATGCTTTCAGTGCC	5484	5507

**Region: vpr**

RT	40061VPRR01	CTGACTTCCCGGATGATTCC	5862	5881
1 <sup>st</sup> round Fwd	40061VPRF01	AAGGAAAGCCATATTAGGACAAGTAGTTAG	5400	5429
1 <sup>st</sup> round Rev	40061VPRR01	CTGACTTCCCGGATGATTCC	5862	5881
2 <sup>nd</sup> round Fwd	40061VPRF02	GCACTGAAAGCATTAAACAACACC	5485	5507
2 <sup>nd</sup> round Rev	40061VPRR03	GGAGCCAGGACCTAGGAAAATGTC	5653	5676

**Region: env**

RT	40061ENVR01	CGCACTGATCTGTCTCTGCC	8445	8464
1 <sup>st</sup> round Fwd	40061ENVF01	GGCTGTGGAAAGATACCTAAAAGATC	7967	7992
1 <sup>st</sup> round Rev	40061ENVR01	CGCACTGATCTGTCTCTGCC	8445	8464
2 <sup>nd</sup> round Fwd	40061ENVF02	CTTTGGGGATGCTCTGGAA	8007	8025
2 <sup>nd</sup> round Rev	40061ENVR02	AACCAACTCCACAGGCTTGC	8223	8242

**Participant: 40436**

**Region: p7**

RT	40436P7R02	TGGGGCTGTTGGCTCTG	2147	2163
1 <sup>st</sup> round Fwd	40436P7F02	TGGCCATAAAGCAAGGGTTTTAG	1857	1879

1 <sup>st</sup> round Rev	40436P7R02	TGGGGCTGTTGGCTCTG	2147	2163
2 <sup>nd</sup> round Fwd	40436P7F01	AGGCAACTATAATGATGCAGAGAGG	1907	1931
2 <sup>nd</sup> round Rev	40436P7R01	AAATTCCCCGGCCTTCC	2116	2132

**Region: C3V4**

RT	40436C3V4R02	CCCAAAGATCATAGCTCCTATTCCC	7763	7787
1 <sup>st</sup> round Fwd	40436C3V4F02	AACAGGTAGCTGGAAAATTTAAAAGAGCAC	7252	7280
1 <sup>st</sup> round Rev	40436C3V4R02	CCCAAAGATCATAGCTCCTATTCCC	7763	7787
2 <sup>nd</sup> round Fwd	40436C3V4F01	AATTGTAGAGGGGAGTTTTTCTATTGCAATAC	7353	7384
2 <sup>nd</sup> round Rev	40436C3V4R01	TTGTCCTTTATATTTCTCCTCCAGG	7632	7657

**Region: gp41**

RT	40436GP41R02	GAGATACTGCTCCTACTCCTTCCGTTG	8873	8899
1 <sup>st</sup> round Fwd	40436GP41F02	TGGGAAGGCCCTCAAATATCTGGGG	8592	8615
1 <sup>st</sup> round Rev	40436GP41R02	GAGATACTGCTCCTACTCCTTCCGTTG	8873	8899
2 <sup>nd</sup> round Fwd	40436GP41F01	GGGACAGGAACTCAAACACTAGTGC	8633	8656
2 <sup>nd</sup> round Rev	40436GP41R01	AGGCCATCCCCTATGCTG	8820	8838

**Participant: 10463**

**Region: V3V4<sup>c</sup>**

RT	10463V3V4R02	GGGATGGGAGGGGCATAC	7526	7543
1 <sup>st</sup> round Fwd	10463V3V4F02	ACATAATAGTGCAGTTCCAGAAGGC	7072	7096
1 <sup>st</sup> round Rev	10463V3V4R02	GGGATGGGAGGGGCATAC	7526	7543

**Region: V3**

2 <sup>nd</sup> round Fwd	10463V3F01	GAAAAGGTATACATATAGGACCAGGG	7141	7166
2 <sup>nd</sup> round Rev	10463V3R11	GCTACYTGTTGYAAAGCTTTATTCCAGTCTGA	7230	7261

**Region: V4**

2 <sup>nd</sup> round Fwd	10463V4F11	TGCTTGTCCTACTCTCTGCCAC	7344	7373
2 <sup>nd</sup> round Rev	10463V4R01	CATAGTTTTAATTGTGGAGGAGAATTTTTTC	7502	7523

**Region: *nef***

RT	10463NEF04	GGAGTAAATTAACCCATCCAGTCC	9082	9105
1 <sup>st</sup> round Fwd	10463NEF02	AACATGGGAGGCAAAGGG	8794	8811
1 <sup>st</sup> round Rev	10463NEF04	GGAGTAAATTAACCCATCCAGTCC	9082	9105
2 <sup>nd</sup> round Fwd	10463NEF01	TGCTCCAGCTCCAGCAG	8862	8878
2 <sup>nd</sup> round Rev	10463NEF08	GCTGAGATCAAAAGCTCCTTTGTAAGTC	9033	9060

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**Participant: 40265****Region: *p17***

RT	40265P17R01	ATCATATTTAAATCTTGTGGGGT	1327	1349
1 <sup>st</sup> round Fwd	40265P17F01	GCGTCAGTATTAAGTGGGG	802	820
1 <sup>st</sup> round Rev	40265P17R01	ATCATATTTAAATCTTGTGGGGT	1327	1349
2 <sup>nd</sup> round Fwd	40265P17F02	GAAAATTAGATGCATGGG	821	838
2 <sup>nd</sup> round Rev	40265P17R03	TAATGATTTAAGTTCCTCTGATCCTGTC	996	1023

**Region: *RNase/int<sup>d</sup>***

RT	40265RNaseR01	TGCTGGGATAACTTCTGCT	4484	4502
1 <sup>st</sup> round Fwd	40265RNaseF01	GCAGGATTCAGGATCAGA	4007	4024
1 <sup>st</sup> round Rev	40265RNaseR01	TGCTGGGATAACTTCTGCT	4484	4502

**Region: *RNase***

2 <sup>nd</sup> round Fwd	40265RnaseF02	CAGACTCACAATATGCATTAGGAA	4039	4062
2 <sup>nd</sup> round Rev	40265RnaseR03	GGTCTTCTTGAGCCTTATCTATCCC	4239	4263

**Region: *int***

2 <sup>nd</sup> round Fwd	40265RnaseF03	CAATTGGAGAACAATGGCTAGTG	4280	4302
2 <sup>nd</sup> round Rev	40265RnaseR02	TGAACTGCTACCAGGATGAC	4443	4462

**Region: *gp41/rev***

RT	40265REV2R01	GACCACTTGCCTCCCAT	8797	8813
1 <sup>st</sup> round Fwd	40265REV2F01	CCAGACCCCTATCCATCA	8438	8455

1 <sup>st</sup> round Rev	40265REV2R01	GACCACTTGCCTCCCAT	8797	8813
2 <sup>nd</sup> round Fwd	40265REVF02	CGAGCAAGGCAGAGACA	7717	7733
2 <sup>nd</sup> round Rev	40265REVR02	TCCAGACTCTTTGTGCTACTTCT	8714	8736

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a RT: reverse transcription; 1<sup>st</sup> round: first round PCR; 2<sup>nd</sup> round: second round PCR; Fwd: forward; Rev: reverse.

b Coordinates based on HXB2 reference sequence.

c Product of reverse transcription and first round PCR of 10463 V3V4 is the template for separate second round PCRs for V3 and V4 regions.

d Product of reverse transcription and first round PCR of 40265 RNase/int is the template for separate second round PCRs for RNase and int regions.